

THE TECH

VOL. XXXIII. NO. 85.

BOSTON, MASS., TUESDAY, NOVEMBER 25, 1913.

PRICE TWO CENTS

ANOTHER LEGACY FOR TECHNOLOGY

Mr. Frederick W. Emery Of Boston Leaves A Hundred Thousand To Institute.

President Richard C. Maclaurin announces today the gift to the Massachusetts Institute of Technology of one hundred thousand dollars. The money, which is unrestricted in its applications, comes through the will of Frederick W. Emery of Boston, who makes the Institute his residuary legatee and the Treasurer of Technology his executor. The will has been allowed and Francis R. Hart '89, vice-president of the Old Colony Trust Co., who is Technology's treasurer, has been appointed by the court. The sum which will come to the Institute is one hundred thousand dollars, the estate being practically all personal property and the legacies clearly defined.

As in the case of the Pratt bequest of three-quarters of a million, this gift comes to Tech as a surprise, for none of the Faculty were intimate with him, and like Mr. Pratt, whose home was formerly on Newbury Street, the windows of Mr. Emery's apartment looked down on the Tech campus. Both men seem to have gained a good opinion of the school through being its near neighbors. Mr. Emery, who had never married, was for the past twenty years a resident of Hotel Brunswick. He was a skilled hunter and fisherman and a great traveler. He was for a score of years retired from business.

Dr. Maclaurin has been fortunate in seeing nine hundred thousand dollars added to the resources of Technology this year, which is made up from the two anonymous gifts of five hundred and one hundred thousand dollars, the Hartlett bequest of one hundred thousand, the Weld bequest of about equal amount and the Emery bequest, in addition to which is the bequest of Mary C. V. Speare of five thousand. It has been a good year for Technology, but the New Technology is so liberally planned that the gifts will all be well placed, and there will be opportunity to use still more.

CHESS CLUB

Next Friday afternoon at 5 o'clock there will be a meeting of the Executive Committee of the Chess Club in Room B of the Union. This is a very important meeting and a full attendance is requested.

SOPHOMORE BALLOTS

The Sophomore ballots are due at the Cage today at 4.00 P. M. No ballot will be counted unless the sender has paid his dues, both this year's and last year's. The dues may be left at the Cage with the ballots, however, so that no fears need be entertained that ballots will not, after all, be counted. The men are cautioned to see that the money is left in a well-sealed envelope.

MEETING OF CANDIDATES OPENS TRACK SEASON

Coach Kanaly Outlines Work And Tells Of Opportunities Of New Year.

Yesterday afternoon all the track men and the Freshmen who are substituting track work for the required course in gymnastics met in 8 Eng. C. Coach Frank Kanaly spoke to the men and outlined the track plans for the winter and spring seasons, telling the men what would be expected of them in the way of turning out for practice if they wanted to be considered candidates for the regular track team.

In opening the meeting Coach Kanaly spoke of the fine work of the Cross-Country Team in New York last Saturday and told of the efforts that had to be made in the meeting of the athletic advisory council last week in order to have the team compete after the slump of the N. E. 1. C. A. A. A. race, when the team finished only fourth. Captain Nye, he said, was the best leader that a Tech team has ever had. Although not a star in the common acceptance of the word, his example was always one that could be followed by the rest of the men for the best interests of the team. The support given to the cross-country by the rest of the Institute was also commented upon by

(Continued on page 2.)

MUSICAL CLUBS CONCERT

Reserved Seats Today In The Union At 1.00 P. M.

Reserved seats for the concert to be given Friday night in Jordan Hall by the Combined Musical Clubs of M. I. T. and Wesleyan will be on sale at 1 o'clock today in the Union and also at Herrick's. The tickets sold by members of the clubs must be exchanged at the Union between one and two o'clock any day before Friday.

This concert will be almost the only chance Tech men will have to hear the Musical Clubs this season, as only a limited number of tickets are to be sold for the Winter Concert. The Wesleyan Clubs are making a tour of New England, this being the only appearance in Boston. They are reported to be very fine, and the M. I. T. Clubs are introducing several special numbers by the Glee Club Quartet, so this concert is expected to be one of the best this season. Advance reports say that the Wesleyan side of the house is almost sold out and seats in the Tech side are going fast, so that those who wish to go must get their tickets without delay.

The Tech Clubs are doing their best to outdo Wesleyan in the concert. They hope that the undergraduates will make a fine showing in attendance and spirit, and will show Wesleyan that Tech has a live student body which turns out to support its clubs.

EDGAR L. KAULA 1916 AUTHOR OF TECH SHOW

Title For Book Not Yet Chosen—Call For Lyric Candidates Issued Today.

The book for Tech Show 1914 has finally been selected and the author is Edgar Louis Kaula 1916. Kaula has been active at the Institute, being a member of his class football team both years, a member of THE TECH last year, as well as interested in other activities.

The scene of the Show opens in the apartments of an American college student named Jack Simpson. There are a number of guests present at a tea, among whom is the heir to the throne of Polyhemia, a dependent state of Russia. The heir has been in America since he was very young and has made up his mind never to return to his native country. In the midst of the scene a messenger comes in with the announcement that his uncle, the King of Polyhemia, is dead, and that he must return to that country to take the throne. The country has rich mines which are coveted by Russia, and unless the new king accedes to the throne within three months the territory reverts to the Russian crown.

The message shows also that the Premier is coming that evening to make arrangements for his return. The Prince, however, whose name is Paul, has an appointment with a girl which he will not break. Simpson is persuaded to see the Premier, so the Prince is enabled to keep his appointment.

While out that evening, Paul is injured in an auto accident, so badly it turns out, that he cannot leave the

(Continued on page 4.)

1916 BASKETBALL SCHEDULE

Has But Few Games As Compared With Freshmen.

The prospects for the 1916 Basketball Team, according to Manager Ziner, who states that an interesting schedule has been arranged—a schedule which includes games with a number of Y. M. C. A. teams, and which offers the men a little two-day trip during the mid-year vacation. Much difficulty has been experienced in getting games with High schools, these preferring contests with the supposedly weaker Freshmen; but one High school is on the schedule, and a few academies of approximately High school grade. The manager has been encouraged by the small number of the candidates who have shown up for the first week of practice, but he feels that the victory which the Freshmen scored last Saturday will arouse the class to the need of backing the team strongly if it is to win from its younger rivals, and that more men will come out tonight than have previously appeared for practice. It is to be noted that the class basketball teams have only one opportunity a week to practice, (Continued on page 3.)

SENIOR CLASS DINNER TONIGHT IN THE UNION

Dean Burton, Prof. Dewey And Prof. Sedgewick To Be Speakers—A Few Tickets Left.

The Class of 1914 will meet this evening in the Union at 6.30 sharp for their annual dinner. About one hundred and twenty-five men are expected to be present, and everything has been proclaimed in readiness by the committee for a most enjoyable evening. The speakers of the evening are Dean Burton, Prof. Dewey, the head of the Department of Economics, and Prof. Sedgewick, who is head of the Department of Biology and Public Health. All are well known as exceptionally interesting speakers, and they will probably make the dinner a memorable one.

Provision may still be made for a limited number of men if they apply to A. F. Peaslee for tickets before noon today and leave their application in care of the Cage.

NO DRILL WEDNESDAY

Lecture In Military Science Will Also Be Omitted.

On account of the large number of men desiring to catch early trains, Major Cole announces that there will be no Drill or Military Science Lecture on Wednesday, but drill will be held on Friday as usual.

Chevrons and stripes for non-commissioned officers have arrived. All suits already turned in for alterations will be delivered on Friday afternoon and must be taken out by those who do not drill that day as well as the others.

Those who have not turned in suits for alterations or rank insignia must do so at once by taking them to James Greatorex, 130 Staniford Street, near the North Station. Explanations will be required of all those who are not provided with complete uniforms by Friday.

The lecture in Military Science on Friday will be held in 23 Walker instead of in Huntington Hall.

CALENDAR

Tuesday, November 25, 1913.

Noon—Last Chance to secure Senior Dinner Tickets—Union.

1.00—Concert Tickets Exchanged—Union.

4.00—1916 Ballots Due—Cage.

5.00—1916 Basketball Practice—Gym.

6.30—1914 Class Dinner—Union.

6.30—Episcopalian Dinner—Union.

7.15—Mr. Kneeland Speaks—Trinity House.

7.30—Chauncy Hall Club—Union.

8.00—Spanish Club—Irving Hall.

Wednesday, November 26, 1913.

4.30—Candidates for Show Lyrics—Show Office.

1916 election closes today. Who is secretary?

WESLEYAN CONCERT TICKETS—Union 1.00 P. M.

THE TECH

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TUESDAY, NOVEMBER 25, 1913.

In Charge of This Issue

Editor—G. W. Wyman '16.
Associate—P. W. MacNeill '15.

The Freshman basketball men are amply justifying the financial support given them by their class. The marked success of this experiment should show the student body what the results are of giving an activity the support it deserves.

Freshmen are often criticised for discourteous conduct in class-rooms, but they are not by any means the only offenders. In the Sophomore Descriptive Geometry lectures only the holders of front seats can hear all that is said. The majority cannot follow the subject at all.

The large legacy which has just been left to the Institute by a man who lived in its neighborhood shows the esteem in which Tech has been held by outsiders who have come into contact with it. Some of us are none too careful how we foster this attitude; the selfish reason is the least important one for remembering to uphold the honor of our school to strangers.

In your reading while in school do not reach out too eagerly after the practical phases of your subjects. Remember that the theory is the more difficult part to obtain unaided and that after graduation you will be obliged to make special effort to gain further knowledge of it, while you will necessarily learn much of practice in the ordinary course of your work. Seek to establish the principles which form the basis of your future tasks as thoroughly as possible in your mind and to acquire all the knowledge of them your time and strength will permit. Build your foundations substantially, and the superstructure will be much more certain to serve its purpose.—Harrington.

ENGINEERING AND SCIENTIFIC NOTES

Owing to the large capacity of ocean cables and retardation to current transmission produced by the storing up of energy, it is necessary to frequently reverse the direction of the current through them, and so the present-day method of long-distance cable telegraphy consists of sending, with a double current-reversing key positive impulses through the cable to represent the "dots" of the Morse code and negative impulses for the "dashes." These alternating impulses cause the needle of a sphyphon recorder to swing to one side or the other and thus a record of the message is received. Such an apparatus cannot be worked by an ordinary Morse operator, and, furthermore, it is incapable of being coupled directly with a "land" line.

Mr. John Gott, consulting engineer for the Commercial Cable Company, has devised an apparatus which, by eliminating both of these hindrances will doubtless revolutionize the cable world. It consists in brief of the ordinary Morse key working in conjunction with a polarized relay. This latter instrument performs two functions. First, as the key is raised after sending a "dot" or "dash," the cable is momentarily grounded and partially discharged, and simultaneously the polarity of the battery is changed so that each successive character is sent with an impulse of a different sign than its predecessor, and hence the detrimental "capacity effect" is eliminated. These impulses, being long or short in duration, can be received and interpreted with an ordinary Morse recorder or sounder. In place of the key may be substituted the common relay, and thus automatic connection between land line and cable is accomplished.

A successful demonstration of this apparatus was performed by sending from San Francisco a message which, after being relayed nine times across the continent, arrived in New York where it was automatically put into "cable form" by the Gott apparatus, forwarded to Canso, N. S., and there relayed for its final journey through 2700 miles of ocean cable to London. The operator at San Francisco actually produced the clicking in London as satisfactorily "as if he had been in Manchester."

As this method permits of duplex working it is likely to prove a distinct advantage for efficient cable work. A detailed description with diagrams and photographs will be found in the Scientific American for November 22d.

TRACK WORK

(Continued from page 1.)
Mr. Kanaly. It was a poor spirit he said that could only turn out six men to see the team off for New York. In contrast he told of the scores of Tech alumni that turned out to see the run in Van Cortlandt Park, dropping business and other interests to see the undergraduates of the old school perform, and to cheer them on in their work.

The track work from now on will take on a more serious aspect, practise being held four times a week: Monday, Wednesday, Thursday and Saturday being the afternoons chosen. For the Freshmen substituting track for Gym, attendance on three days will be required. For the candidates out for the Freshman track team four days will be expected. Every man must practise on Saturday as this will be the day on which most of the work in competition will be

(Continued on page 4.)

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1916 BASKETBALL

(Continued from page 1.)

and on this account also Manager Ziner is anxious that men turn out promptly and in great numbers. The activities of the track and other Varsity teams occupy so much time that it has been found necessary to limit the class teams to two nights per week. The Freshmen work on Fridays and the Sophomores on Tuesdays.

The prospects on the whole, however, are considered good, although some of the men are out of the game temporarily. F. Ross, star guard of last year's team, is out on account of the pressure of other work. Captain Dewson, although at present suffering from water on the knee, will be in trim for the opening game with the Boston Y. M. C. A. J. Merrith, last year's forward, is still practicing basket-shooting with his usual success. Wylde, Reycroft, and Ziner are on the floor again. Several new men have reported, and are being tried out. Manager Ziner is anxious for more, however; every Tuesday at 5 in the afternoon.

The schedule is as follows:

Dec. 15—Boston Y. M. C. A.
Dec. 19—Winthrop High.
Dec. 30—Freshman.
Jan. 3—Open.
Jan. 10—Dean Academy at Franklin.
Jan. 17—Middleboro Y. M. C. A.
Jan. 24—Cushing Academy at Ashburnham.
Feb. 14—Quincy Y. M. C. A.
Feb. 21—Freshman.
Feb. 28—Cunningham Gym at East Milton.

Mar. 4—Freshman.

With the obvious exception of the three contests with 1917, all of the games will be away from home, as it is not felt that the gate receipts at Tech Gym would warrant the holding of games there.

The Seniors have their big dinner tonight.

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CHEM. SOCIETY MEN
VISIT GLASS WORKS

Follow The Process Of Cut Glass Manufacture From Mixing Of Glass To End.

Yesterday afternoon the first squad of men of the Chemical Society were taken through the plant of the Union Glass Works in Somerville.

Upon reaching the factory the men were divided into groups of six and shown the different steps in the manufacture of cut glass. The raw materials for the glass are assembled in the mixing room, the sand being imported from France, the potash salts from Germany, and the red lead mostly from England, where it is made free from silver, the presence of which is detrimental to glass. The batch then goes to the furnaces where it is melted, the heat being supplied by oil blasts and controlled by means of pyrometers.

The blowing room was naturally the most interesting part of the process. Here a blower removes a lump of red-hot glass from the furnace on a hollow tube, and with a few deft motions and the use of his lungs converts it into a vase or pitcher. The dexterity and skill with which these men handle the hot glass is remarkable. After leaving the blowers, the articles are annealed and then go to the cutting rooms. The grinding is done by means of sand on wheels of steel, stone and wood, each giving a finer polish than the last. The workmen often make their own designs and rely on their eyes for the accuracy of the cutting, so a good workman can command high wages.

Further trips to the factory will be made this week to accommodate the others who have signed up. Notices will be posted on the Bulletin Boards in Walker Building. Two more trips will probably be made as only eighteen men can be taken at once.

The officers of the Chemical Society wish to announce that only members of the Society are eligible for this trip and others to be made. Those who have not paid their dues of one dollar can see Treasurer Hamilton, or give the money to Pres. R. H. Dickson or Vice-Pres. B. H. Hale. A number of interesting trips and talks are to be given in the near future. It is expected that Prof. Whittaker, the head of the Chemical Eng. Dept. of Columbia University, will be secured to address the next meeting, and efforts are being made to get Mr. A. D. Little to speak to the Society on "Chemical Reports." Trips are also being planned, including one to a tannery, a worsted mill, a paper mill, and a brewery.

EPISCOPALIANS MEET

The Brotherhood of St. Andrew will hold a dinner this evening at the Union. The men will dine at 6.30, and will later adjourn to the Trinity House, 83 St. James Ave., where they will be addressed by Mr. Frederick Kneeland, instructor in the Department of Chemistry and Chemical Engineering at the Institute. Mr. Kneeland will speak at about 7.15, and has chosen for his topic "Personal Work." As head of the Assembly of Brotherhoods of St. Andrew for the Boston district, the speaker has had an opportunity to understand the relation of each kind of Christian work to every other kind, and will endeavor to make the men see the particular value of the branch under consideration. This will be one of the regular series of talks which the Brotherhood is conducting during the present term, and all Tech men, as usual, will be heartily welcome.



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COSMOPOLITAN CLUB

Informal Ladies' Night To Be Held Saturday—Program Later.

The members of the Cosmopolitan Club have felt, since the announcement last week of the Chinese National Night which is to be held next Saturday, that everybody who has seen and enjoyed the Chinese Nights of the past few years will now be anticipating an enjoyable and entertaining program. They believe that the Program Committee is working with unceasing enthusiasm, and is sparing no pains to maintain their reputations as entertainers of unusual capacity.

Chinese Night will be held, as has been announced, in the Union, and at eight o'clock, the usual hour. The Club wishes it emphasized that the occasion will be entirely informal. It was at first planned to admit guests only by special invitation tickets which were to have been obtainable from members of the Club; but the plans have been altered so that tickets will not be necessary, and all Tech men will be heartily welcome. The evening will be observed as a Ladies' Night, and all comers are invited to bring with them their friends of the opposite sex.

The final program has not yet been fully arranged. It will be settled upon this week, however, and will be published in Friday's issue of THE TECH.

TECH SHOW

(Continued from page 1.) hospital for a period of six months. Jack is prevailed upon to take the place of the Prince, and he returns to Polyhemia with the Premier.

The next act opens in the castle gardens at Vklavidiforo, the capital of Polyhemia. Simpson finally assumes the duties of King, in place of Paul. In the meantime the council has decided upon a bride for the Prince. The lady in the case is the Princess Elaine of Ausersky.

The Princess turns out to be the girl with whom Jack had fallen in love while she was living "incognito" in Paris. He finds that he cannot marry her, however, because, although none knows it except his American friends, he is not of royal blood.

The chief interest is held by a Polyhemic Anarchist who has fallen in love with the girl whom Paul is hoping to marry. She has tried unsuccessfully to follow him. There happens to be in Polyhemia at the time an American financier named Smith who is a close friend of the Prince and knows his whereabouts, and also knows the girl. In return for information concerning the whereabouts of the Prince, he persuades her to coax the Anarchist into selling him the mines.

At this juncture, Russia finds that Simpson is an upstart, and sends an army at once to capture the country; but this conquest, the Anarchist having sold to an American citizen the property which made the country of value, is productive of no especial benefit to the Russian government. Simpson and the Princess are married, and Americans return to the United States with the chief interest in the rich mine in their possession.

Good lyrics are wanted for the Show, the titles of which will be announced tomorrow. All men who want to try in this competition will meet Stage Manager D. M. Hughes at the Show office at 4.30 tomorrow.

And again we hear of a cool one hundred thousand for Technology.

SPANISH CLUB HOSTS

Tech Latin-Americans Invited To Social This Evening.

The Spanish Club of Boston has extended an invitation to the members of the Latin-American Club of the Institute to be present at the social which it is to hold this evening. The social is to be held in Irving Hall, which is located in the Pierce Building, Copley Square. A Ladies' Night is to be observed, and the Tech men who come are urged by the officers to bring members of the fair sex to help their enjoyment of the anticipated good time. Refreshments will be served.

The Spanish Club of Boston, it will be remembered, is the organization which has done so much for the recently formed Latin-American Club at Tech. This invitation has been extended through Mr. Sturgis, ex-President of the Spanish Club, who has acted for it in most of its relations with Institute men. Although a number of the latter, mostly Juniors and Seniors, are already members of the Boston club, and are consequently well acquainted with the social life which it is striving to offer Spanish-speaking people in the city; yet many are strangers to the Club, and it is to reach them in particular that the invitation is being given. The social begins at eight o'clock.

CHAUNCEY HALL MEN

Any men in the Freshman Class coming from the Chauncey Hall School are requested to be present at a meeting to be held in one of the small rooms of the Union at 7.30 o'clock tonight.

TRACK WORK

(Continued from page 2.) done, and the work will be planned so that every man will be in the very best of condition on that day.

This year the policy of training and of choosing the men for the teams will be somewhat changed. More work will be done on the outdoor track than has been the case of previous years, so the men will need to bring warmer clothing to be worn in connection with the regular track suit. Two trials will be held for the making up of the team, one indoor trial and one on the outdoor track. In addition to the times made in these trials the personal judgment of the coach will also enter into the final choice. In former years the watch has entirely decided the matter, which has not been as satisfactory as may have been expected.

To show the opportunities for the team to place, which are greater than last year, Coach Kanaly read a list he had prepared of the point winners of the two big meets of last year, and the other men of known capabilities who have graduated from their respective colleges, thus giving opportunities for new men to place in the events that have been left vacant.

The dates of some of the track events of the year was given out, but the schedule for the track team has not been entirely completed, and many changes will probably have to be made before it will be considered final. Two dates that have been definitely settled are those of December 13 and 23, when scrub meets between all the men out will be held in the gymnasium.

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